



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: John Mark Zetts Examiner: Vincent Boccio
Serial No. 09/850253 Group Art Unit: 2621
Patent No. **7,177,520 issued on 2/13/2007**
Filed: May 7, 2001 Docket No. STL920000106U
Title: SYSTEM AND METHOD OF TIMECODE REPAIR AND
SYNCHRONIZATION IN MPEG STREAMS

CERTIFICATE UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence and identified enclosures are being transmitted by the first class mail, under 37 C.F.R. § 1.8, and is addressed to the Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on March 6, 2008.

[Signature]
Sandra Parker

REQUEST FOR ISSUANCE OF CERTIFICATE OF CORRECTION

Mail Stop: Certificate of Corrections Branch
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

*Certificate
MAR 13 2008
of Correction*

Sir:

Patent 7,177,520, issued on 2/13/2007, has numerous significant errors in three claims, as indicated in the attached Certificate of Correction form, which arose during the printing of the patent by the USPTO, and the Certificate should be issued at no cost to the Applicant. Correct claims were submitted in a Preliminary Amendment entered on 6/29/2001 and reviewed by

Examiner Boccio

Adjustment date: 03/11/2008 SLUANG1
03/10/2008 RFEKADU1 00000041 090460 7177520
01 FC:1811 100.00 CR
03/10/2008 RFEKADU1 00000041 090460 7177520
01 FC:1811 100.00 DA

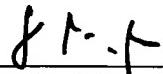
RECEIVED-USPTO
Printed Publication

MAR 13 2008

Moreover, a minor clerical error occurred in good faith by Applicant's attorney in typing the Assignee name, which should be the full name as shown in the enclosed recorded Assignment. Thus, a certificate of correction fee of \$100.00, if needed, is hereby authorized to be charged to Deposit Account Number **09-0460** in the name of IBM Corporation. Any overpayments are also authorized to be credited to this account.

Respectfully submitted,

Date: March 6, 2008



Sandra M. Parker
Reg. No. 36,233

LAW OFFICE OF SANDRA M. PARKER
329 La Jolla Avenue
Long Beach, CA 90803
Phone/Fax: (562) 597-7504

RECEIVED-USPTO
Patent Publication



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

AUGUST 03, 2001

PTAS

LAW OFFICE OF SANDRA M. PARKER
SANDRA M. PARKER, ESQ.
329 LA JOLLA AVENUE
LONG BEACH, CA 90803



101723247A

S72920000106US1

CHS

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/07/2001

REEL/FRAME: 011807/0309

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:

ZETTS, JOHN MARK

DOC DATE: 05/04/2001

ASSIGNOR:

INTERNATIONAL BUSINESS MACHINES
CORPORATION
NEW ORCHARD STREET
ARMONK, NEW YORK 10504

SERIAL NUMBER: 09850253

FILING DATE: 05/07/2001

PATENT NUMBER:

ISSUE DATE:

STEVEN POST, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECEIVED-USPTO
Patent Publication

MAR 13 2008

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 3

PATENT NO. : 7,177,520

APPLICATION NO.: 09/850,253

ISSUE DATE : 2/13/2007

INVENTOR(S) : John Mark Zetts

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Substitute claim 36 with the following claim, due to the USPTO printing errors made in col. 22, li. 59 through col. 23, li. 15:

36. A method of processing a previously encoded MPEG video high-resolution (HR) file and corresponding proxy file, for frame accurate timecode repair and synchronization of individual video frames of the HR file and proxy file, comprising the following steps:

- (a) for each video frame of the HR file and proxy file, creating a compressed timecode packet having an identifying signature, an absolute timecode of the frame, a relative timecode of the frame, a picture type and a picture reference, wherein the timecodes having the SMPTE timecode format HH:MM:SS:FF;
 - (b) modifying the HR file and proxy file by inserting in a header of each video frame of the HR file and proxy file the corresponding compressed timecode packet, while maintaining the files' original frame presentation timing;
 - (c) automatically verifying the timecodes in the HR file and proxy file timecode packets; and
 - (d) if needing a repair of the HR file anomalous absolute timecodes, automatically correcting the anomalous absolute timecodes in the HR file timecode packets,
- thereby preserving the MPEG compliance and compressed audio/video data of the HR file and proxy file.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sandra M. Parker, Esq.
329 La Jolla Ave
Long Beach, CA 90803

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED-USPTO
Patent & Trademark Office

MAR 13 2008

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 2 of 3

PATENT NO. : 7,177,520

APPLICATION NO.: 09/850,253

ISSUE DATE : 2/13/2007

INVENTOR(S) : John Mark Zetts

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Substitute claim 39 with the following claim, due to the USPTO printing errors made in col. 23, li. 28-30:

39. A system for processing a previously encoded MPEG video high-resolution (HR) file and corresponding proxy file, for frame accurate timecode repair and synchronization of individual video frames of the HR file and proxy file, comprising:
 a computer coupled to an electronic storage device for storing the MPEG video files;
 programming means, performed by the computer, for creating for each video frame of the HR file and proxy file, a compressed timecode packet having an identifying signature, an absolute timecode of the frame, a relative timecode of the frame, a picture type and a picture reference, wherein the timecodes having the SMPTE timecode format HH:MM:SS:FF;
 programming means, performed by the computer, for modifying the HR file and proxy file by inserting in a header of each video frame of the HR file and proxy file the corresponding compressed timecode packet, while maintaining the files' original frame presentation timing;
 programming means, performed by the computer, for automatically verifying the timecodes in the HR file and proxy file timecode packets; and
 programming means, performed by the computer, for automatically synchronizing the proxy file and the HR file absolute timecodes and relative timecodes in the timecode packets,
 thereby preserving the MPEG compliance and compressed audio/video data of the MPEG video file.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sandra M. Parker, Esq.
 329 La Jolla Ave
 Long Beach, CA 90803

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S. PATENT AND TRADEMARK OFFICE
PATENT PUBLICATION

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

MAR 13 2008

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

Page 3 of 3

PATENT NO. : 7,177,520

APPLICATION NO.: 09/850,253

ISSUE DATE : 2/13/2007

INVENTOR(S) : John Mark Zetts

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Substitute claim 40 with the following claim, due to the USPTO printing errors made in col. 23, li. 42 to 54:

40. The system according to claim 39, wherein the means for automatically synchronizing the proxy file and the HR file absolute timecodes and relative timecodes in the timecode packets further comprising:
means for inserting a synchronization metadata into the proxy file, for signaling an offset and disparity in duration of the proxy file and HR file, a timecode repair action taken, and a timecode type identifying a source of the absolute timecode as chosen from a group comprising an original source timecode, repaired timecode, elapsed timecode or house timecode, and
means for marking affected frames of the proxy file as unviewable, when no corresponding frame found in the HR file.

Substitute Assignee Name "IBM Corporation" with the full name --International Business Machines Corporation--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sandra M. Parker, Esq.
329 La Jolla Ave
Long Beach, CA 90803

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED-USPTO
Patent & Trademark

MAR 13 2008

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 3

PATENT NO. : 7,177,520

APPLICATION NO.: 09/850,253

ISSUE DATE : 2/13/2007

INVENTOR(S) : John Mark Zetts

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Substitute claim 36 with the following claim, due to the USPTO printing errors made in col. 22, li. 59 through col. 23, li. 15:

36. A method of processing a previously encoded MPEG video high-resolution (HR) file and corresponding proxy file, for frame accurate timecode repair and synchronization of individual video frames of the HR file and proxy file, comprising the following steps:

- (a) for each video frame of the HR file and proxy file, creating a compressed timecode packet having an identifying signature, an absolute timecode of the frame, a relative timecode of the frame, a picture type and a picture reference, wherein the timecodes having the SMPTE timecode format HH:MM:SS:FF;
 - (b) modifying the HR file and proxy file by inserting in a header of each video frame of the HR file and proxy file the corresponding compressed timecode packet, while maintaining the files' original frame presentation timing;
 - (c) automatically verifying the timecodes in the HR file and proxy file timecode packets; and
 - (d) if needing a repair of the HR file anomalous absolute timecodes, automatically correcting the anomalous absolute timecodes in the HR file timecode packets,
- thereby preserving the MPEG compliance and compressed audio/video data of the HR file and proxy file.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sandra M. Parker, Esq.
329 La Jolla Ave
Long Beach, CA 90803

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED-USPTO
Patent & Trademark Office

MAR 13 2008

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 2 of 3

PATENT NO. : 7,177,520

APPLICATION NO.: 09/850,253

ISSUE DATE : 2/13/2007

INVENTOR(S) : John Mark Zetts

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Substitute claim 39 with the following claim, due to the USPTO printing errors made in col. 23, li. 28-30:

39. A system for processing a previously encoded MPEG video high-resolution (HR) file and corresponding proxy file, for frame accurate timecode repair and synchronization of individual video frames of the HR file and proxy file, comprising:
 a computer coupled to an electronic storage device for storing the MPEG video files;
 programming means, performed by the computer, for creating for each video frame of the HR file and proxy file, a compressed timecode packet having an identifying signature, an absolute timecode of the frame, a relative timecode of the frame, a picture type and a picture reference, wherein the timecodes having the SMPTE timecode format HH:MM:SS:FF;
 programming means, performed by the computer, for modifying the HR file and proxy file by inserting in a header of each video frame of the HR file and proxy file the corresponding compressed timecode packet, while maintaining the files' original frame presentation timing;
 programming means, performed by the computer, for automatically verifying the timecodes in the HR file and proxy file timecode packets; and
 programming means, performed by the computer, for automatically synchronizing the proxy file and the HR file absolute timecodes and relative timecodes in the timecode packets,
 thereby preserving the MPEG compliance and compressed audio/video data of the MPEG video file.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sandra M. Parker, Esq.
 329 La Jolla Ave
 Long Beach, CA 90803

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED-USPTO
PATENT PUBLICATION

MAR 13 2008

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 3 of 3

PATENT NO. : 7,177,520

APPLICATION NO.: 09/850,253

ISSUE DATE : 2/13/2007

INVENTOR(S) : John Mark Zetts

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Substitute claim 40 with the following claim, due to the USPTO printing errors made in col. 23, li. 42 to 54:

40. The system according to claim 39, wherein the means for automatically synchronizing the proxy file and the HR file absolute timecodes and relative timecodes in the timecode packets further comprising:
means for inserting a synchronization metadata into the proxy file, for signaling an offset and disparity in duration of the proxy file and HR file, a timecode repair action taken, and a timecode type identifying a source of the absolute timecode as chosen from a group comprising an original source timecode, repaired timecode, elapsed timecode or house timecode, and
means for marking affected frames of the proxy file as unviewable, when no corresponding frame found in the HR file.

Substitute Assignee Name "IBM Corporation" with the full name --International Business Machines Corporation--.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Sandra M. Parker, Esq.
329 La Jolla Ave
Long Beach, CA 90803

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO:** Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED-USPTO
Patent Application

MAR 13 2008